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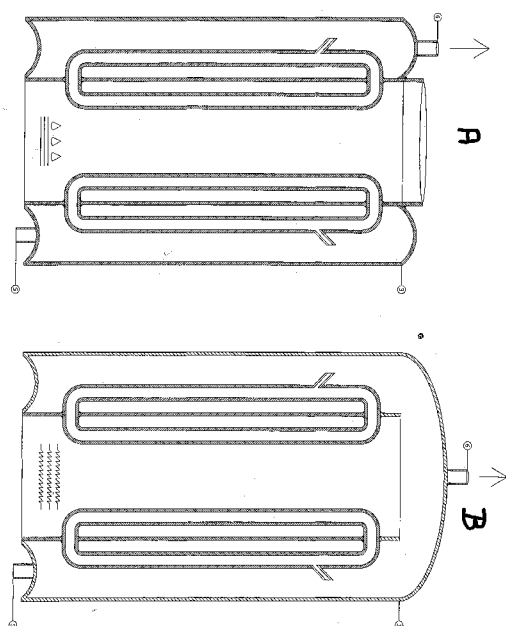
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(54) Title: HEAT EXCHANGER WITH ELIPSOIDAL PIPE



(57) Abstract: The invention relates to a water heater comprising an ellipsoidal heat pipe exchanger formed of an ellipsoidal heat pipe (1) provided with a sealing discharge connection (2) which intersects the outer vertical separating a metal element (3) the role of focus between primary energy source and area of use. Water heater (A) uses fossil fuels, tight hermetic welds being made by (4), the access is made through connections (5) water heater (B) uses electricity energy.

DESCRIPTION OF THE INVENTION

The invention refers to an ellipsoidal heat pipe exchanger, for water heaters, heat transfer in domestic or industrial area, which uses various fossil fuels or electricity energy.

There are known several types of heat pipe exchangers as those from some bread ovens, extracting heat from the bath treatments thermal salt form having the right pipe, heat recovery from smoke flues, etc,

It is also known heat exchangers and other heat pipe having the form of semi ellipse used on some water heaters.

The disadvantages of right heat pipe exchanger consist in that their operation is performed in solution semi-drowned because surfaces contact with primary caloric source is done sequentially - tangentially, with a high consumption of heat and low efficiency.

The technical problem and an invention proposes to solve is more efficient increased fuel usage, increased heat transfer speed, reducing costs for thermal energy consumed.

Water heater in accordance invention removes heat exchangers known disadvantages in that it comprises a distinct component which provides transfer increased outbreaks of primary energy heater, toward the consumer area.

Distinct component of the heat exchanger tube is an ellipsoidal pipe with the function of heat pipe is comprised outside of a pipe with focus stove role.

According to the invention, ellipsoidal heat exchanger removes the other disadvantages of others heat exchangers well-known, in that primary energy source is taken entirely by the surface of the metal separation the focus role of the ellipse part of ellipsoidal heat pipe, which picks up and carries accumulated energy toward the utility.,

The heat exchanger tube ellipsoidal consists of a metal pipe ellipsoidal, fitted with a pipe sealing, which intersects the outer vertical separation metallic element with a focal role between primary caloric source and utility area.

By using heat pipe heat exchanger ellipsoidal are obtained

following advantages: -reducing appreciable fuel use

- high speed thermal transfer
- reduced time for water
- operational reliability,
- enhanced heat transfer surface

In what follows is an example embodiment of the water heater with heat pipe heat schimbatorde ellipsoidal.

According to the invention, water heater comprises two components where A intended for fossil fuels and B intended for electrical energy, the focus of 3 intertwined heat pipe 1 having the pipe sealing 2 and sealing areas 4 and 5 roadways.

1. The water heater comprises a heat exchanger characterized in that it is made up of an ellipsoidal heat pipe (1) fitted with a pipe sealing (2).
2. The water heater according to claim 1, which intersects the outer upright in a metal separator element (3) as a focus between prime power source and the utility surface
3. water heater (A) according to claim 1,2 characterized by attacks that use fossil fuels, sealing is achieved by welding (4) and access is by connections (5).
4. the water heater (B) according to the invention 1,2 and 3, characterized in that the electrical energy used.

